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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/035,301	10/25/2001	Dennis France	4-30944A	1955	
75074 7590 NOVARTIS INSTITUTES FOR BIOMEDICAL RESEARCH, INC. 220 MASSACHUSETTS AVENUE			EXAM	EXAMINER	
			KOSAR, ANDREW D		
CAMBRIDGE	E, MA 02139		ART UNIT	PAPER NUMBER	
			1654		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/035,301 FRANCE ET AL. Office Action Summary Examiner Art Unit ANDREW D. KOSAR 1654 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 12 January 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-13 and 15 is/are pending in the application. 4a) Of the above claim(s) 1-7.11 and 12 is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 8-11,13 and 15 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

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DETAILED ACTION

Response to Amendments/Arguments

Claims 1-13 and 15 are pending. Claims 1-7, 11 and 12 remain withdrawn from consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention/species, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on April 1, 2008.

Applicant's amendments and arguments filed January 12, 2009 are acknowledged and have been fully considered. Any rejection and/or objection not specifically addressed below in original or modified form is herein withdrawn.

With regards to the obviousness rejection, Applicant argues that the compounds of Billich, Häbich and Scholz are not for proliferative disorders. Applicant further asserts the examiner has acknowledged the novelty of the instant compounds. Respectfully, the examiner has not "acknowledged the novelty", but rather is ascertaining "the difference between the prior art and the claims at issue" as set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966). Thus, this is not an acknowledgement of novelty. In response to applicant's argument that the compounds of the prior art are not taught/suggested to be antiproliferatives, the fact that applicant has recognized another advantage which would flow naturally from following the suggestion of the prior art cannot be the basis for patentability when the differences would otherwise be obvious. See *Ex parte Obiaya*, 227 USPQ 58, 60 (Bd. Pat. App. & Inter. 1985). Here, a *prima facie* case of obviousness has been set forth where the combination to form new antiviral compounds flows logically from the combination of the references. Furthermore, it should be noted that the claims are to compounds/compositions, and not to methods of use.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 8-10, 13 and 15 remain rejected under 35 U.S.C. 103(a) as being unpatentable over BILLICH (US Patent 5,538,997; IDS 2/26/02) in view of HÄBICH (US Patent 5,633,231) and SCHOLZ (D. Scholz et al. J. Med. Chem. (1994) 37, pages 3079-3089).

As stated in the instant specification, Billich teaches the instantly claimed compound (example 11), where the only difference is the N-protecting group 3-methylbenzyl ester vs. benzyl ester.

Billich teaches that in the compounds of the structure:

is an amino protecting group or is of the group R₅Y, where R₅ may be, amongst other options,

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substituted arylalkyl (column 1, lines 17-25). The compounds of Billich are contemplated as antivirals for HIV (e.g. column 1, lines 36-40).

Häbich teaches a variety of benzyl esters attached to peptides, including 3-methylbenzylester (e.g. column 53, line 73) attached to the N-terminus of a peptide/peptide like compound. The compounds of Häbich are contemplated as antivirals for HIV (e.g. column 1, lines 8-14).

Scholz teaches HIV antivirals, sharing the core structure of the instant compounds, providing structural analysis of the various positions and their effect on activity (throughout). Scholz determined that the N-terminal protecting group adversely affected the activity when changed from the aryl to alkyl groups, e.g. benzyl to t-butyl (e.g. page 3083, table 4 and discussion). Substitution with 2-pyridine produced a slightly better inhibitor. Scholz states that the R₁ group findings are consistent with the knowledge in the art the HIV P3 site has preference for aromatic residues.

Thus, it would have been obvious to have used any aromatic benzylester, including the 3methylbenzylester of Häbich on the compounds of Billich, with the expectation that the aromatic
compound would function similarly to the benzylester, particularly since Billich teaches that R₁
can be any optionally substituted arylalkyl and teaches the compound with the only difference
being the benzylester vs. 3-methylbenzylester.

A reference is good not only for what it teaches by direct anticipation but also for what one of ordinary skill in the art might reasonably infer from the teachings. (In re Opprecht 12 USPQ 2d 1235, 1236 (Fed Cir. 1989); In re Bode 193 USPQ 12 (CCPA) 1976). In light of the forgoing discussion, the Examiner concludes that the subject matter defined by the instant claims

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would have been obvious within the meaning of 35 USC 103(a). From the teachings of the references, it is apparent that one of ordinary skill in the art would have had a reasonable expectation of success in producing the claimed invention. Therefore, the invention as a whole was prima facie obvious to one of ordinary skill in the art at the time the invention was made, as evidenced by the references, especially in the absence of evidence to the contrary.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

This application contains claims 1-7, 11 and 12 drawn to an invention nonelected without traverse in the reply filed on April 1, 2008. A complete reply to the final rejection must include cancellation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP 8 821.01.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANDREW D. KOSAR whose telephone number is (571)272-0913. The examiner can normally be reached on Monday - Friday 08:00 - 16:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cecilia J. Tsang can be reached on (571)272-0562. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Andrew D Kosar/ Primary Examiner, Art Unit 1654